Page 1 February-14-13 2:55:01 PM Item ID: D4012-1 Accept *N900040100* Setup Start **Revision ID:** Item Name: Cushion Start Date: 2/13/13 **Start Qty: 24.00** *24* **Cust Item ID:** Required Date: 2/25/13 Req'd Qty: 24.00 **Customer:** Reference: Run Process Plan: MLJ Date: B-02-19 Tooling: Approvals: Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. Work Center ID Description **Run Hours** Qty Qty Code Number Stamp **Draw Nbr Revision Nbr** D4012 В 100 0.00 13/02/26 *100* Mill Conv 0.00 Memo Conventional Milling Machine 110 QC2- Inspect parts off machine FAI/FAIB 0.00 *110* QC 0.00 Memo Quality Control

120 QC8- Inspect parts - second check 0.00 *120*

QC 0.00 Memo Quality Control

NCR:	Yes	/	No

DQA:

Date:

NCR: Y	es / No				WORK ORDER NON-	CONFOR	RMANCE / UF	PDATE					
									QA Closed:	Date	:		
Work Orde	er:				DISPOSITION		AGAINST DEPARTMENT/PROCESS						
					Rework	7	Skid-tube Crosstube			Water Jet	Engineering		
Part N	lo.				Scrap	7	Machining	Small Fab	Pro	d. Eng. Coor.	Quality		
		-			Use-as-is	The	moforming	Finishing	Rec/Stoi	re/Packaging	Other		
NCR N	lo	-			Work Order Update]	Large Fab	Composite]	Supplier			
Root				Descri	iption of work order update	Initial	A	ction	Sign &				
Cause	Date	Step	Qty	1	or Non-conformance	Chief En	g Des	cription	Date	Verification	QC Inspector		
Doc/Data													
quip/Tooling						 							
Operator													
Material													
Setup													
Other													
Process	_												
Supplier							[1				
Fraining									ļ.				
Jnapproved		<u> </u>				AULT CAT	ECORY		1				
Landin	ng Gear			·	General	FAULI CAI	EGURT						
Landir	Bending			Г	Bend	Grain	ı	Г	Ovalized	Г	Pressure/Forced		
}	Centre No	nt Conce	ntric to (_{2/5}	BOM/Route	Hardy		<u> </u>	Over/Under	tolerance	Temperature/Cure		
ŀ	Cracks	or conce	intric to v	" -	Broken/Damaged	\vdash	ction Incomplete	<u> </u> -	Part Incorre	<u> </u>	Weld		
1	Crushed/	Crimped			Burrs	$\boldsymbol{\vdash}$	ctions Incomplete	e/Unclear	Part Lost/M	<u> </u>	Wrong Stock Pulled		
}	Cuffs	pcu	•	-	Contamination	—	tenance		Part Moved	_			
	Heat Trea	at			Countersink	Misla			Positioned \				
	Inspectio		Tube		Cut Too Short	Misre			Power Loss,		Other		
ţ	Ripples in	•			Drill Holes	Offse		<u> </u>	⊸ ′				
	Torque V		Extrusio	,	Drawing	Out o	f Calibration						
•	Turning S			<u> </u>	Finish	Out o	f Secuence						
	Wave/Tw				Folio	Outsi	de Dimensions						

Page 2

February-14-13 2:55:01 PM Item ID: D4012-1 Accept *N900040100* Setup Start *NIC1* Revision ID: Item Name: Cushion **Start Date:** 2/13/13 **Start Qty: 24.00 Cust Item ID:** Required Date: 2/25/13 Req'd Qty: 24.00 **Customer:** Reference: Run Process Plan: Date: Tooling: Approvals: Date: Date: SPC (Y/N): Date: Operation Sequence ID/ Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Qty Code **Qty** Number Stamp 123 0.00 *172* Small Fab 0.00 Small Fab CLAMP AND FORM CUSHION AS PER DWG BY SLIGHTLY HEATING IT WITH HEAT GUN, LET IT COOL DOWN BEFORE REMOVING CLAMP. 126 QC5- Inspect part completeness to step on W/O QC 0.00 Memo Quality Control 130 Identify as per dwg & Stock Location: 0.00 *130* Packaging 0.00 Memo Packaging

NCR:	Yes	1	No
NCK:	res	/	INO

DQA: _____ Date: ___

NCR: Y	es / No				WORK ORDER NON-O	CONFO	RMANCE / UF	PDATE					
	·						-		QA Closed:	Date	2:		
Work Orde	r:				DISPOSITION		AGAINST DEPARTMENT/PROCESS						
	· · · 				Rework	1	Skid-tube	Crosstube]	Water Jet	Engineering		
Part N	0.				Scrap	1	Machining	Small Fab	Pro	d. Eng. Coor.	Quality		
					Use-as-is	The	rmoforming	Finishing	Rec/Sto	re/Packaging	Other		
NCR N	0				Work Order Update]	Large Fab	Composite	j	Supplier			
Root				Descri	ption of work order update	Initial	A	ction	Sign &				
Cause	Date	Step	Qty		or Non-conformance	Chief Er	ng Des	cription	Date	Verification	QC Inspector		
Doc/Data				·									
equip/Tooling													
Operator	_												
Material													
Setup	_												
Other													
Process	4						l l			1			
Supplier	-												
Training	-								1				
Jnapproved						AULT CA	TEGORY		1	<u> </u>	1		
Landin	g Gear				General	AULI CA	ILGUNI						
	Bending				Bend	Grain	า		Ovalized	Γ	Pressure/Forced		
-	Centre No	ot Conce	ntric to (BOM/Route	Hard		-	Over/Under	tolerance	Temperature/Cure		
l l	Cracks			-	Broken/Damaged		ction Incomplete	-	Part Incorre	⊢	Weld		
-	Crushed/	Crimped	<u>-</u>	<u> </u>	Burrs	-	uctions Incomplete	/Unclear	Part Lost/M	;	Wrong Stock Pulled		
ļ	Cuffs	•			Contamination		ntenance		Part Moved	- L			
	Heat Trea	at			Countersink	Misla	beled		Positioned \	N rong			
	Inspectio	n Strip in	Tube		Cut Too Short	Misre	ead		Power Loss,	/Surge	Other		
ľ	Ripples in	Bend			Drill Holes	Offse	t	_					
Ī	Torque W	aves in I	Extrusion	1 [Drawing	Out	of Calibration						
ſ	Turning S	equence			Finish	Out	of Sequence						
	Wave/Tw	ist in Tul	oe		Folio	Outs	de Dimensions						

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Quality Control

97172

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Item ID: D4012-1 Accept *N900040100* Setup Start **Revision ID:** Item Name: Cushion **Start Date:** 2/13/13 **Start Qty: 24.00** *24* **Cust Item ID:** Required Date: 2/25/13 Req'd Qty: 24.00 **Customer:** Reference: Run Process Plan: ____ Date: Approvals: Tooling: Date: QC: ____ Date: ____ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Reject Accept Insp. Work Center ID Description **Run Hours** Qty Code Qty Number Stamp 140 QC21- Final Inspection - Work Order Release 0.00 *140* 0.00 Memo

MC 13-02-28

NCR:	Yes /	No				WORK ORDER NON-C	O	NFOR!	MANCE / UPDATE		•	<u>.</u>		· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	-								•		QA Closed:	Date	<u>;</u>	
Work Orde	er:					DISPOSITION			AGAINST	DE	PARTMENT	PROCESS		
Part No. NCR No.						Rework Skid-tube Crosstube Scrap Machining Small Fab Thermoforming Finishing Work Order Update Large Fab Composite				Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier			Engineering Quality Other	
Root					Descri	ption of work order update	1	nitial	Action		Sign &	· · · · · · · · · · · · · · · · · · ·		
Cause	D	ate	Step	Qty	(or Non-conformance	Ch	ief Eng	Description		Date	Verification		QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved									•					
							AUL	T CATE	GORY					
Landi	Cen	nding ntre Not cks	: Concer	itric to (o/s	General Bend BOM/Route Broken/Damaged Burrs		1	re on Incomplete ions Incomplete/Unclear		Ovalized Over/Under Part Incorred Part Lost/Mi	et [Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled
	Har		pcu.		-	Contamination	-	Mainte	,		Part Moved			s.ig stock i diled

Mislabeled

Out of Calibration

Out of Sequence

Outside Dimensions

Misread

Offset

DQA:

Positioned Wrong

Power Loss/Surge

Other

Date:

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

Countersink

Cut Too Short

Drill Holes

Drawing

Finish

Folio

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Picklist Print

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Work Order ID:

97172

Parent Item:

D4012-1

Parent Item Name:

Cushion

Start Date: 2/13/13

Required Date: 2/25/13

Start Qty: 24.00

Required Qty: 24.00

Comments:

IPP RevA: New issue 09.10.28 DD verified by:JLM

IPP RevB: revA as per dwg

09.11.18 DD verified by:JLM

IPP Rev:C 11.01.10 as per dwg Rev.B DD verified

by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4287-3 UHMW U-Channel		Manufactured	No			100	f	10.4000	0.37	9.3473688	.84		
				Location MAT051	MJ P /28	Loc Oty 4	<u>Lo</u>	c Code		9.22			
				<u>9494</u> ST202	10 (3/	4 6.4							
				9110)2	6.4							

NCR:	Yes	1	No
INCh.	162	/	INO

DQA: _____ Date: ____

NCR: Ye	es / No				WORK ORDER NON-	CONFOR	MANCE / UP		QA Closed:	Date:				
Work Order	r·				DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part No	•		******		Rework Scrap]	Skid-tube Machining	Crosstube Small Fab	Pro	Water Jet d. Eng. Coor.	Engineering Quality			
FaitiNi	U				Use-as-is	- I Ther	moforming	Finishing		re/Packaging	Other			
NCR N	0				Work Order Update					Supplier				
Root				Descri	ption of work order update	Initial		ction	Sign &	<u></u>				
Cause	Date	Step	Qty		or Non-conformance	Chief En	g Desc	cription	Date	Verification	QC Inspector			
Doc/Data														
quip/Tooling														
Operator		1												
Material	_													
Setup														
Other	_													
Process	_													
Supplier	_													
Training														
Unapproved						AULT CAT	TCODY		<u> </u>	1				
	- 0					AULI CAT	EGUKY							
Landin F					General Bend	Grain		[Ovalized		Pressure/Forced			
-	Bending Centre No	-t Camaa.	atria ta (\	BOM/Route	Hardy			Over/Under	tolerance	Temperature/Cure			
-	Cracks	ot concer	THIC TO C	^{5/3} -	Broken/Damaged	\vdash	ction Incomplete	<u> </u>	Part Incorre	-	Weld			
-	Crushed/	Crimpad		<u> </u>	Burrs	\vdash	ction incomplete,	/Unclear	Part Lost/M		Wrong Stock Pulled			
-	Cuffs	Cimped		-	Contamination	₩	tenance	, one can	Part Moved					
}	Heat Trea	at .			Countersink	Misla		<u> </u>	Positioned \					
<u> </u>	Inspectio		Tuhe		Cut Too Short	Misre		<u> </u>	Power Loss,		Other			
 	Ripples in	•	, 000	-	Drill Holes	Offset		<u> </u>	J					
-	Torque W		Extrusion	, -	Drawing		f Calibration							
-	Turning S			·	Finish	\vdash	f Sequence							
f	Wave/Tw	-			Folio		de Dimensions							

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DART AEROSPACE LTD	Work Order:	97172
Description: Cushion	Part Number:	D4012-1
Inspection Dwg: D4012 Rev: B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

	Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	1.25	+/-0.030	1,265			MJP-04	Vern
	1.050	+/-0.010	1.041	V		100	111
	0.10	+/-0.030	0.094	/		161	111
	4.41	+/-0.030	4,402			fe s	14
/A	0,0160000	- talo:019	0.387	-/-			
	0.17	+/-0.030	0 177	/		116	163
	,076	+ .015	,090			e (ч
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Measured by:	MUD SHO	Audited by:	OAS	Preliminary Approval:	
Date:	13/02/28	Date:	9-39 13/28	Date:	

				1	Approved //
Re	ev Date	Change		sed by	Approved
A	11.01.17	New Issue	_KJ	$-d\Lambda$	7//
E	12.08.02	Dwg Rev updated	KJ	734	4
				1/ /	

